



#22

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/350,401  
Source: 1600  
Date Processed by STIC: 11/18/2002

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NOV 25 2002

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
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TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/350,401

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length      Sequence(s)          contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)         . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ✓      Skipped Sequences  
    (NEW RULES)      Sequence(s) 1197 missing. If intentional, please insert the following lines for each skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>      Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n      n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

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1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/350,401

DATE: 11/18/2002

TIME: 16:08:28

Input Set : A:\2060\_0060008seqlist.txt

Output Set: N:\CRF4\11182002\I350401.raw

4 <110> APPLICANT: Alessandro Sette  
 5 John Sidney  
 6 Scott Southwood  
 7 Maria A. Vitiello  
 8 Brian D. Livingston  
 9 Esteban Celis  
 10 Ralph T. Kubo  
 11 Howard M. Grey  
 12 Robert Chesnut  
 14 <120> TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO  
 15 HEPATITIS B VIRUS USING PEPTIDE AND NUCLEIC ACID  
 16 COMPOSITIONS  
 18 <130> FILE REFERENCE: 2060.0060008  
 20 <140> CURRENT APPLICATION NUMBER: US 09/350,401  
 21 <141> CURRENT FILING DATE: 1999-07-08  
 23 <150> PRIOR APPLICATION NUMBER: US 08/820,360  
 24 <151> PRIOR FILING DATE: 1997-03-12  
 26 <150> PRIOR APPLICATION NUMBER: US 60/013,363  
 27 <151> PRIOR FILING DATE: 1996-03-13  
 29 <150> PRIOR APPLICATION NUMBER: US 09/189,702  
 30 <151> PRIOR FILING DATE: 1998-11-10  
 32 <150> PRIOR APPLICATION NUMBER: US 08/205,713  
 33 <151> PRIOR FILING DATE: 1994-03-04  
 35 <150> PRIOR APPLICATION NUMBER: US 08/159,184  
 36 <151> PRIOR FILING DATE: 1993-11-29  
 38 <150> PRIOR APPLICATION NUMBER: US 08/073,205  
 39 <151> PRIOR FILING DATE: 1993-07-04  
 41 <160> NUMBER OF SEQ ID NOS: 3879  
 43 <170> SOFTWARE: FastSEQ for Windows Version 4.0

**Does Not Comply  
Corrected Diskette Needed**

FYI

Use of n and/or Xaa has been detected in the Sequence List  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

## ERRORED SEQUENCES

15591 <210> SEQ ID NO: 1197  
 15592 <211> LENGTH: 11  
 15593 <212> TYPE: DNA  
 15595 <220> FEATURE:  
 15596 <223> OTHER INFORMATION: Artificially Synthesized Peptide  
 15598 <400> SEQUENCE: 1197

E--&gt; 15599 000

what is this?

If it's an  
actual sequence,  
the <213> and  
response are missing;

If this is an intentionally skipped  
sequence, follow the format shown in  
item 8 on Erro summary  
sheet.

file://C:\CRF4\Outhold\Vsrl350401.htm

the <223> explanation  
is incorrect, since a  
DNA sequence is not a  
peptide and the  
11/18/02  
if nucleotides are missing.

## VERIFICATION SUMMARY

DATE: 11/18/2002

PATENT APPLICATION: US/09/350,401

TIME: 16:08:32

Input Set : A:\2060\_0060008seqlist.txt

Output Set: N:\CRF4\11182002\I350401.raw

L:15599 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (1197) SEQUENCE:  
L:15599 M:252 E: No. of Seq. differs, <211> LENGTH:Input:11 Found:0 SEQ:1197  
L:42597 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:42601 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3274  
L:42602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3274 after pos.:0  
L:42614 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:42618 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3275  
L:42619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3275 after pos.:0  
L:43125 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43129 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3314  
L:43130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3314 after pos.:0  
L:43142 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43146 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3315  
L:43147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3315 after pos.:0  
L:43159 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43163 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3316  
L:43164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3316 after pos.:0  
L:43176 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43180 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3317  
L:43181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3317 after pos.:0  
L:43193 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43197 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3318  
L:43198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3318 after pos.:0  
L:43210 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43214 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3319  
L:43215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3319 after pos.:0  
L:43227 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43231 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3320  
L:43232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3320 after pos.:0  
L:43244 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43248 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3321  
L:43249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3321 after pos.:0  
L:43261 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43265 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3322  
L:43266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3322 after pos.:0  
L:43278 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43282 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3323  
L:43283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3323 after pos.:0  
L:43295 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43299 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3324  
L:43300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3324 after pos.:0  
L:43312 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43316 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3325  
L:43317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3325 after pos.:0  
L:43329 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43333 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3326  
L:43334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3326 after pos.:0  
L:43346 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

## VERIFICATION SUMMARY

DATE: 11/18/2002

PATENT APPLICATION: US/09/350,401

TIME: 16:08:32

Input Set : A:\2060\_0060008seqlist.txt

Output Set: N:\CRF4\11182002\I350401.raw

L:43350 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3327  
L:43351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3327 after pos.:0  
L:43363 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43367 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3328  
L:43368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3328 after pos.:0  
L:43380 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43384 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3329  
L:43385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3329 after pos.:0  
L:43397 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43401 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3330  
L:43402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3330 after pos.:0  
L:43414 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:43418 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3331  
L:43419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3331 after pos.:0  
L:44068 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:44072 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3381  
L:44073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3381 after pos.:0  
L:44085 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:44089 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3382  
L:44090 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3382 after pos.:0  
L:44531 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:44535 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3416  
L:44536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3416 after pos.:0  
L:44548 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:44552 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3417  
L:44553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3417 after pos.:0  
L:44565 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:44569 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3418  
L:44572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3418 after pos.:16  
L:44584 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:44588 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3419  
L:44589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3419 after pos.:0  
L:44601 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:44605 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3420  
L:44606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3420 after pos.:0  
L:44618 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:44622 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3421  
L:44623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3421 after pos.:0  
L:44635 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:44639 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3422  
L:44640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3422 after pos.:0  
L:44652 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:44656 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3423  
L:44657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3423 after pos.:0  
L:44669 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:44673 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3424  
L:44674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3424 after pos.:0  
L:44686 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:44690 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3425